PUBLICATIONS OF THE

AMERICAN

STATISTICAL ASSOCIATION

VOLUME XIV
NOS. 105–112

1914–1915

BOSTON:
AMERICAN STATISTICAL ASSOCIATION
1916

LIBRARY
UNIV OF MAINE

Copyrighted, 1916, by American Statistical Association

CONTENTS.

LEADING ARTICLES.

	Page
The Seventy-fifth Anniversary Celebration of the American Statistical Association	1
The Service of Statistics to Economics. *David Kinley*	11
The Service of Statistics to Sociology. *Franklin H. Giddings*	21
The Service of Statistics to History. *Charles H. Hull*	30
The Service and Importance of Statistics to Biology. *Raymond Pearl*	40
The Technique of Public Statistical Exhibits. *Charles J. Storey*	49
The Influence of Marriage on the Death-rate of Men and Women. *George I. Bliss*	54
The Need of a Federal Trade Census. *Melvin T. Copeland*	62
The Number of Jews in New York City. *Henry Chalmers*	68
The Present Status of Statistical Work and How It Needs to be Developed in the Service of the Federal Government. *William S. Rossiter*	85
Present Status of Statistical Work and How it Needs to be Developed in the Service of the States. *Adna F. Weber*	97
Statistics in the Service of the Municipality. *F. Spencer Baldwin*	103
The Present Status of Statistical Work and How it Needs to be Developed in the Service of Private Societies and Organizations. *W. S. Gifford*	116
A National Budget. *Harvey S. Chase*	122

56, 565

Page

Methods of Direct Legislation in Oregon. *William F. Ogburn* 136

Education and Fecundity. *Nellie Seeds Nearing* . . 156

The Occupation Hazard of Locomotive Firemen. *Henry J. Harris* 177

Vital Statistics—The White Slave of Sanitation. *Cressy L. Wilbur, M.D.* 203

The Decadence of the Native American Stock. A Statistical Study of Genealogical Records. *Frederick S. Crum* 215

Immigration as a Source of Urban Increase. *F. Stuart Chapin, Ph.D.* 223

American Life Tables. *C. H. Forsyth* 228

Service Income and Property Income. *Scott Nearing* . 236

Coöperation Between Academic and Official Statisticians. *Walter F. Willcox* 281

The Economic Progress of the United States During the Last Seventy-five Years. *Frederick L. Hoffman, LL.D.* 294

Records of Health and Sanitary Progress. *Robert E. Chaddock, Ph.D.* 319

Some Census Publications and Census Methods. *Edward M. Hartwell, Ph.D.* 335

Some Statistical Ideals. *John Koren* 351

A Standard Accident Table as a Basis for Compensation Rates. *I. M. Rubinow* 358

The Statistical Work of the United States Government. *Walter F. Willcox* 416

How the Statistical Output of Federal Bureaus might be Improved. *W. C. Mitchell* 422

The Statistical Work of the United States Government. *E. Dana Durand* 425

Page

Some Features of the Statistical Work of the Bureau of Labor Statistics. *Royal Meeker* 431

Coöperation of Federal Bureaus with Private Agencies in Statistical Work. *John Cummings* 442

Some Present Statistical Needs and the Statistical Work of the Federal Government. *W. S. Gifford* . 449

Concerning Uniform International Financial Statements. *Harvey S. Chase* 452

International Coöperation for the Standardization of Statistical Work. *Roger W. Babson* 462

The Census Office in Commission. *S. N. D. North* . . 467

Proceedings of the Seventy-sixth Annual Meeting of the American Statistical Association, Princeton, N. J., December 28–31, 1914 475

Public Service Statistics in the United States. *Julius H. Parmelee* 489

Infant Mortality in Fall River, Massachusetts—A Survey of the Mortality among 833 Infants born in June, July, and August, 1913. *Louis I. Dublin* . 505

Income Tax Statistics. *Roland P. Falkner* 521

Old Age and the Industrial Scrap-Heap. *Arthur J. Todd* 550

Estimates of a Living Wage for Female Workers. *Charles E. Persons* 567

The Improvement and Extension of the Registration Area. *Louis I. Dublin* 578

Osculatory Interpolation Formulas. *C. H. Forsyth* . . 583

The Social Survey and its Further Development. *J. L. Gillin* 603

Data on Unemployment from Employers' Records. *Howard Woolston* 611

The Value to Economics of Formal Statistical Methods. *Carl J. West* 618

Page

Infant Mortality and the Size of the Family. *Henry H. Hibbs* 629

Measure of Rural Migration and Other Factors of Urban Increase in the United States. *John M. Gillette and George R. Davies* 642

Contributions to Urban Growth. *Earle Clark* . . . 654

A Study of the Causes of Industrial Accidents. *Gustavus Myers* 672

The Service of Statistics in Problems of War and Peace. *E. Dana Durand* 701

Some Population Statistics of the Pacific Coast States. *Walter F. Willcox* 711

"On the Handicapping of the First Born," A Criticism of Professor Pearson's 1914 Memoir. *Louis I. Dublin and Harry Langman* 727

Vital Statistics Work in California. *George D. Leslie* . 736

Theory of Statistical Tabulation. *G. P. Watkins* . . 742

Vital and Monetary Losses in the United States Due to Preventable Deaths. *C. H. Forsyth* 758

Joint Committee on Standards for Graphic Presentation. 790

New Method for Computing the Moving Average. *Willford I. King* 798

Comparative Militarism. *Arthur MacDonald* . . . 801

Wholesale Prices for the United States, 1801–1840. *Alvin H. Hansen* 804

The Present Position of Infant Mortality: Its Recent Decline in the United States. *Henry Horace Hibbs, Jr.* 813

REVIEWS AND MISCELLANY.

Address of Dr. George von Mayr. *W. F. W.* 175

Agricultural Census of 1910, The. *B. H. Hibbard* 262

American Marriages Ending in Divorce, Proportion of. *Walter F. Willcox* 483

Page

Annual Statistical Report of the Boston Chamber of Commerce—1913. *William H. Mahoney* 260

Anthracite Coal Combination in the United States, with some Account of the Early Development of the Anthracite Industry. *J. L. Deming* 487

Births and Deaths, National Registration of. *W. B. B.* 488

Boston Chamber of Commerce—1913, Annual Statistical Report of the. *William H. Mahoney* 260

Cancer Problem, The. *Walter F. Willcox* 485

Census of 1910, Agricultural. *B. H. Hibbard* 262

Census of the United States—Manufactures, 1910. *Horace Secrist* . 265

Census of the United States—Reports on Population, 1910. *Roswell F. Phelps* 276

Census of Mines and Quarries, for 1909. *Willford I. King* 273

Child Helping Organizations, Elements of Record Keeping for. *William B. Bailey* 829

Coal Combination, in the United States, Anthracite. *J. L. Deming.* 487

Construction of Mortality and Sickness Tables. *W. B. B.* 344

Correction, A. *F. H. Knight* 700

Crime in Chicago, Statistics Relating to. *W. B. B.* 830

Cycles: Their Law and Cause, Economic. *Warren M. Persons* . . 695

Deaths, National Registration of Births and. *W. B. B.* 488

Distributive Percentages as Published in the Reports of the Bureau of the Census do not invariably add to 100, Why. *Joseph A. Hill* 595

Divorce, Proportion of American Marriages ending in. *Walter F. Willcox* 483

Elements of Record Keeping for Child Helping Organizations. *William B. Bailey* 829

Economic Cycles: Their Law and Cause. *Warren M. Persons* . . 695

European Statistical Work, Mechanical Devices in. *F. H. Knight* 596

Factors Affecting the Health of Garment Workers. *W. B. B.* . . 700

Financial Statistics, Note on a Certain Use of. *G. P. Watkins* . . 590

Garment Workers, Factors Affecting the Health of. *W. B. B.* . . 700

German People, Grow in One Hour, How do the. *F. L. H.* 488

Graphic Methods of Presenting Facts. *Wm. B. Bailey* 343

Health of Garment Workers, Factors Affecting the. *W. B. B.* . . 700

Health Officers, Manual for. *Louis I. Dublin* 828

Influence of Monarchs, The. *C.-E. A. Winslow* 76

In Memoriam. *J. K.* 261

Page

Manual for Health Officers. *Louis I. Dublin* 828

Manufactures, Thirteenth Census of the United States, 1910. *Horace Secrist* 265

Mechanical Devices in European Statistical Work. *F. H. Knight* . 596

Mines and Quarries for 1909, The Census of. *Willford I. King.* . . 273

Monarchs, The Influence of. *C.-E. A. Winslow* 76

Money and Prices: A Statistical Study of Price Movements. *Warren M. Persons* 79

Mortality Statistics of Recent Yale Graduates. *J. H. Parmelee* . . 599

Mortality and Sickness Tables, The Construction of. *W. B. B.* . . 344

Negro Year Book. *E. W. Kopf* 831

Note. *L. I. D.* 827

Note. *W. F. Willcox* 601

Note on his Review by Warren M. Persons of my "Money and Prices." *James D. Magee* 345

Percentages as Published in the Reports of the Bureau of the Census do not Invariably Add to 100, Why Distributive. *Joseph A. Hill* 595

Population Reports, Thirteenth Census of the United States, 1910. *Roswell F. Phelps* 276

Prices: A Statistical Study of Price Movements. *Warren M. Persons* 79

Record Keeping for Child Helping Organizations, Elements of. *William B. Bailey* 829

Rejoinder to Note on Review of "Money and Prices" by James D. Magee. *Warren M. Persons* 347

Sickness Tables, The Construction of Mortality and. *W. B. B.* . . 344

Some Aspects of the Tariff Question. *Harry Gunnison Brown* . . 698

Statistical Report of Boston Chamber of Commerce, 1913. *William H. Mahoney* 260

Statistics, Note on a Certain Use of Financial. *G. P. Watkins* . . 590

"Statistics Relating to Crime in Chicago." *W. B. B.* 830

Statistics of Suicide in Spain and Saxony. *Louis I. Dublin* . . . 827

Tariff Question, Some Aspects of. *Harry Gunnison Brown* . . . 698

Thirteenth Census of the United States—Manufactures, 1910. *Horace Secrist* 265

Thirteenth Census of the United States—1910 Population. *Roswell F. Phelps* 276

United States, The Anthracite Coal Combination in. *J. L. Deming* 487

Uruguayan Statistical Reform. *F. L. H.* 83

Yale Graduates, Mortality Statistics of Recent. *J. H. Parmelee* . 599